

***I Claim:***

1 1. Freestall elevated beam cow stall assembly, comprising  
2 at least a pair of vertical posts aligned in respect to a floor of a row of cow  
3 stalls;  
4 first and second angle brackets each including a side plate mounted onto a  
5 respective one of said posts, and an apertured back plate;  
6 a plurality of support stanchions each including a vertical rail, an upper  
7 receiver affixed at an upper part of the vertical rail, and a lower receiver affixed at  
8 a lower part of the vertical rail;  
9 a first one of said support stanchions being mounted onto the back plate of  
10 said first angle bracket and a second one of said support stanchions being mounted  
11 onto the back plate of said second angle bracket;  
12 a horizontal beam affixed onto the back plates of said angle brackets and  
13 extending transversely between said posts; and  
14 at least first and second stall dividers each having an upper horizontal rail  
15 and a lower horizontal rail, with ends of the upper and lower rails being mounted in  
16 the receivers of said first and second support stanchions, respectively.

1 2. Freestall elevated beam cow stall assembly according to Claim 1 wherein  
2 each of said first and second stanchions is mounted by a pair of round U-bolts  
3 passing over its vertical rail and through apertures in said back plate.

1 3. Freestall elevated beam cow stall assembly according to Claim 1 wherein  
2 said beam is supported on the back plates of said angle brackets by a pair of U-

3 bolts passing through apertures therein.

1 4. Freestall elevated beam cow stall assembly according to Claim 1 wherein  
2 said beam is supported at substantially 36 to 39 inches above said floor.

1 5. Freestall elevated beam cow stall assembly according to Claim 4 wherein an  
2 unobstructed space is provided between said beam and said floor.

1 6. Freestall elevated beam cow stall assembly according to Claim 1 wherein at  
2 least one additional one of said stanchions is supported on said beam at a position  
3 between said posts, and at least one additional divider has ends of its upper and  
4 lower rails mounted in the upper and lower receivers of the additional stanchion.

1 7. Free stall elevated beam cow stall assembly according to Claim 6, wherein  
2 said additional stanchion is mounted by means of a pair of U-bolts passing over  
3 said horizontal beam and into clamp means positioned on the vertical rail of said  
4 additional stanchion.

1 8. Free stall elevated beam cow stall assembly according to Claim 7 wherein  
2 said clamp means comprises an omega clamp positioned on said vertical rail and  
3 receiving threaded ends of said U-bolts.

1 9. Free stall elevated beam cow stall assembly according to Claim 6, wherein  
2 said additional stanchion is mounted by means of a pair of U-bolts passing over the

3 vertical rail of said additional stanchion and into clamp means positioned on said  
4 horizontal beam.

1 10. Free stall elevated beam cow stall assembly according to Claim 9 wherein  
2 said clamp means comprises an omega clamp positioned on said horizontal beam  
3 and receiving threaded ends of said U-bolts.

1 11. Free stall elevated beam cow stall assembly according to Claim 1 wherein  
2 the receivers on each said stanchion include channel members into which the ends  
3 of the respective upper and lower rail end are received.

1 12. Freestall elevated beam cow stall assembly according to Claim 1 wherein the  
2 receivers of said stanchions are double-ended and are adapted to receive rail ends  
3 of a pair of dividers that project in opposite directions with respect to said beam.

1 13. Freestall elevated beam cow stall assembly according to Claim 1 wherein the  
2 side plate and the back plate of each said angle bracket are joined at a right angle.

1 14. Freestall elevated beam cow stall assembly according to Claim 1 further  
2 comprising a neck rail traversing the upper rails of said dividers and affixed onto  
3 each of the upper rails at positions spaced from the associated stanchions.

1 15. Freestall elevated beam cow stall assembly according to Claim 1 further  
2 comprising a brisket rail traversing the lower rails of said dividers at a position

3 below the lower rails and spaced from the associated stanchion.

1 16. A vertical stanchion for use in supporting a pair of stall dividers, comprising a  
2 vertical tube member, an upper receiver formed of a channel and affixed onto an  
3 upper end of said vertical tube member such that the upper receiver projects in two  
4 opposite directions from the tube member; and a lower receiver formed of a  
5 channel and affixed onto a lower part of said vertical tube member such that the  
6 lower receiver projects in two opposite directions from said tube member.

1 17. A vertical stanchion according to claim 16 wherein each said channel is  
2 oriented with a web thereof on an upward facing side, and an open side facing  
3 downwards.

1 18. A vertical stanchion according to Claim 16 further comprising a ground  
2 support member extending downward below said lower receiver, said ground  
3 support member terminating at a ground support plate at its lower end.

1 19. An angle bracket for supporting a cow stall divider stanchion and a horizontal  
2 elevated beam upon a vertical post, comprising a side plate having at least a pair of  
3 bolt holes therethrough to receive mounting bolts for attaching the side plate to said  
4 post, and a back plate joined at a right angle to said side plate, and having a first  
5 pair of bolt holes at its upper end to receive a U-bolt for attaching to said stanchion,  
6 a second pair of bolt holes at its lower end to receive a U-bolt for attaching to said  
7 stanchion, and three additional pairs of bolt holes each pair disposed at a spaced

8 vertical position between said first and second pairs of bolt holes, for receiving U-  
9 bolts to attach to said horizontal beam.

1 20. An angle bracket according to Claim 19 wherein the bolt holes in said side  
2 plate are arranged one above the other.